

Title: MULTILAYERED THERMOPLASTIC FILM AND SIGN CUTTING  
METHOD USING SAME

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Abstract of the Disclosure

This invention relates to a multilayered thermoplastic film, comprising: a thermoplastic core layer having a first side and a second side, the core layer comprising: a polyolefin having a density in the range of about 0.89 to about 0.97 grams per cubic centimeter; a second polymeric material selected from the group consisting of ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, ionomers derived from sodium, lithium or zinc and an ethylene/methacrylic acid copolymer, and a combination thereof, the second thermoplastic polymeric material being present at a concentration of about 2% to about 25% by weight based on the weight of the core layer; and a light stabilizer at a concentration of about 1,000 to about 10,000 ppm based on the weight of the core layer; an abrasion and scuff resistant clear first thermoplastic skin layer overlying the first side of the core layer, the first skin layer comprising a light stabilizer at a concentration of about 2,000 to about 20,000 ppm based on the weight of the first skin layer; and a clear second thermoplastic skin layer overlying the second side of the core layer, the second skin layer comprising a light stabilizer at a concentration of about 1,000 to about 10,000 ppm based on the weight of the second skin layer; the composition of the core layer being different than the composition of the skin layers; the core layer and the skin layers being characterized by the absence of PVC. The invention also relates to a sign cutting method using the foregoing multilayered thermoplastic film.